



INTER-TRIBAL ENERGY NETWORK AND U.S. DEPARTMENT OF ENERGY STRATEGIC PLANNING SESSION



December 4, 2001

**Lizana K. Pierce
Golden Field Office**

**Steve Sargent
Golden Field Office**



EERE INDIAN ENERGY PROGRAM

- **Overview**

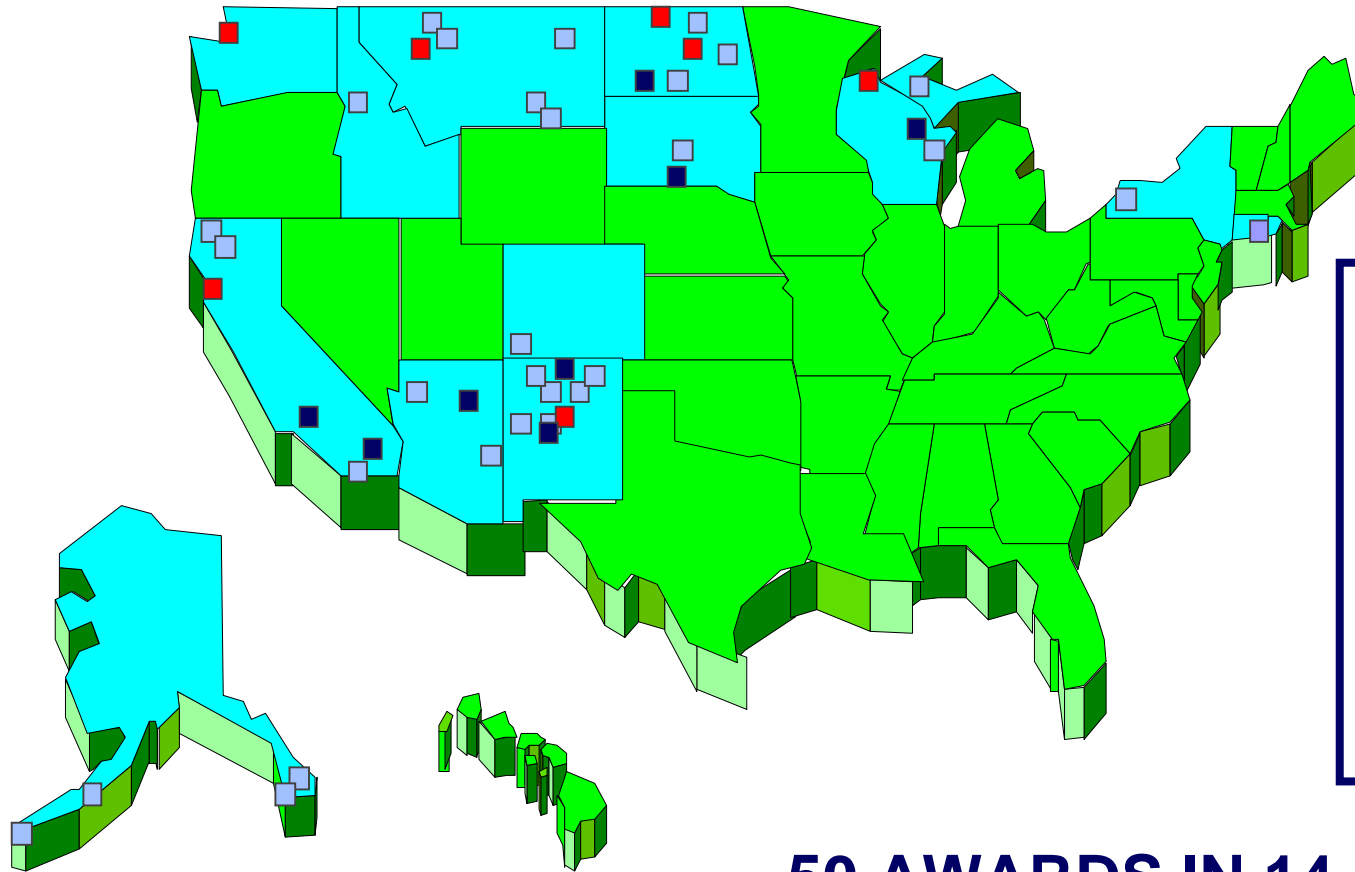
- Title XXVI Projects
- Remote Power Projects
- Tribal Colleges and Universities

- **Strategic Planning**

- Goals
- Peer Review
- EERE Indian Energy Solicitation(s)
 - FY 2002 EERE Indian Energy Budget
 - Process
 - Tribal Needs



EERE NATIVE AMERICAN PROJECTS



TITLE XXVI PROJECTS

REMOTE
APPLICATIONS OF
RENEWABLE ENERGY
ON NATIVE
AMERICAN LANDS

RENEWABLE ENERGY
TECHNOLOGIES AT
TRIBAL COLLEGES &
UNIVERSITIES

50 AWARDS IN 14 STATES

DOE FUNDING OF \$9.53 MILLION



TITLE XXVI INDIAN ENERGY PROGRAM

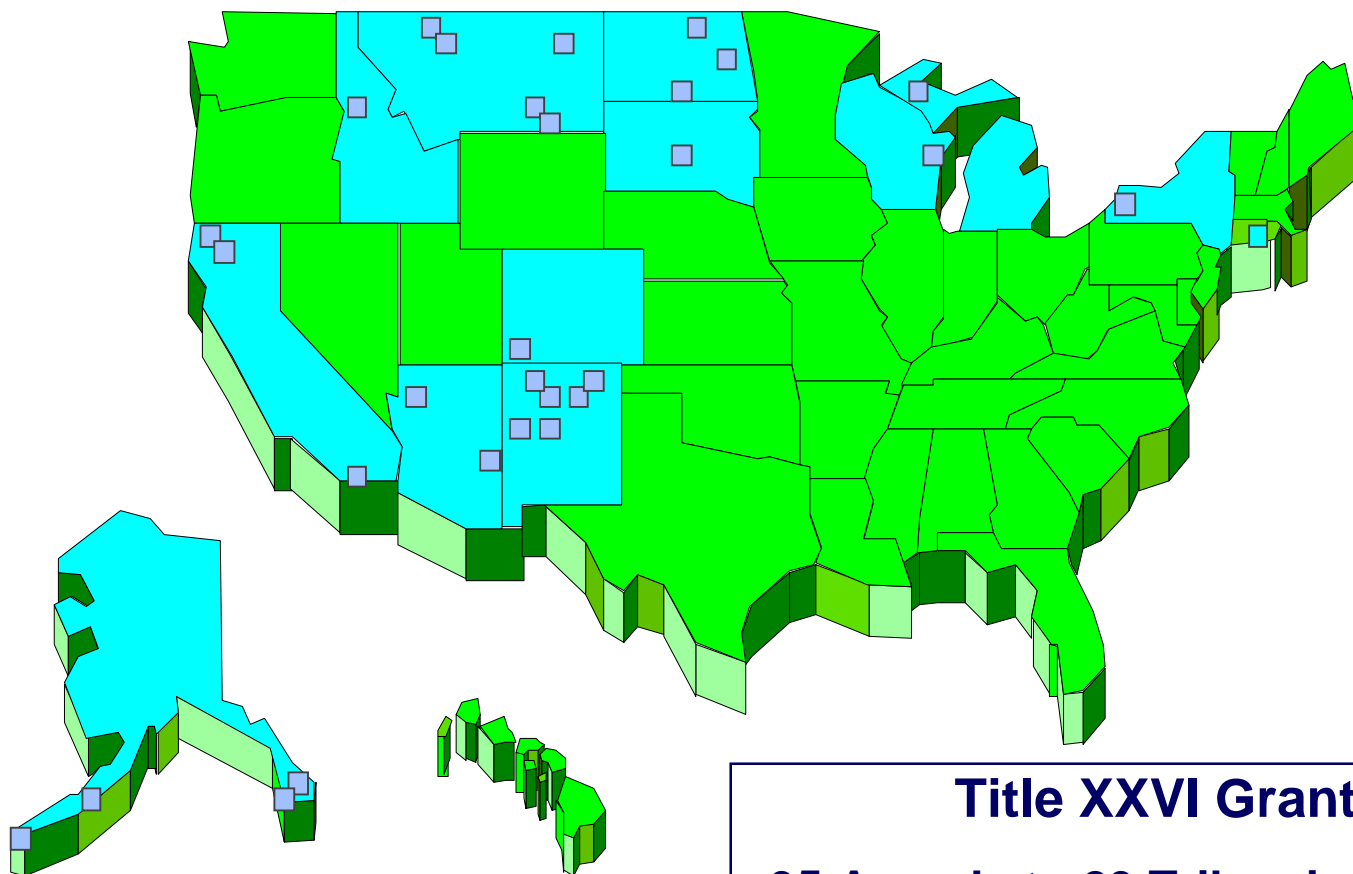
Section 2606 of Title XXVI of the Energy Policy Act of 1992 (P.L. 102-486):

- **Carry out projects to evaluate the feasibility of,**
- **Develop options for, and**
- **Encourage the adoption of energy efficiency and renewable energy projects on Indian reservations.**

THIRTY-FIVE GRANTS AWARDED



TITLE XXVI INDIAN ENERGY PROGRAM



Title XXVI Grants

35 Awards to 29 Tribes in 13 States

Total DOE Funding: \$6.5 Million



TITLE XXVI INDIAN ENERGY PROGRAM

PROJECT LISTING (Tribe/State)

CROW TRIBE OF INDIANS/MT
SENECA NATION OF INDIANS/NY
ONEIDA TRIBE OF INDIANS/WI
WHITE MTN. APACHE TRIBE/AZ
PUEBLO OF ZUNI/NM
TURTLE MTN. BAND CHIPPEWA/ND
UTE MTN. UTE TRIBE/CO
LWR. BRULE SIOUX TRIBE/SD
BLACKFEET TRIBE/MT
HOOPA VALLEY TRIBE/CA
PUEBLO OF LAGUNA/NM
FORT PECK TRIBE/MT
NAMBE PUEBLO/NM
HUALIPAI TRIBE/AZ
PUEBLO OF JEMEZ/NM

DEVIL'S LAKE SIOUX/ND
BLACKFEET TRIBE/MT
NEZ PERCE TRIBE/ID
KEWEENAW BAY INDIAN COMMUNITY/MI
HOOPA VALLEY TRIBE/CA
PICURIS PUEBLO/NM
CAPE FOX CORP./AK
JICARILLA APACHE TRIBE/NM
ATKAIRA COUNCIL/AK
STANDING ROCK SIOUX TRIBE/ND
HAIDA CORP./AK
MOHEGAN TRIBE/CT
NATIVE VILLAGE OF CHIGNIK/AK
MAZANITA BAND OF MISSION/CA
CROW TRIBE OF INDIANS/MT



TITLE XXVI INDIAN ENERGY PROJECTS



**Nez Perce Tribe
Biodiesel Pilot Project**



**Ute Mountain Indian
Reservation
PV Water Pumping**



**Turtle Mountain
Band of
Chippewa Tribe
Wind Resource
Assessment**



**Blackfeet Tribe
Small-Scale
Utility Grade
Wind Turbine
Project**





REMOTE POWER SOLICITATION (FY1999)

Field Validate Renewable Power Systems on Tribal Lands

Objectives

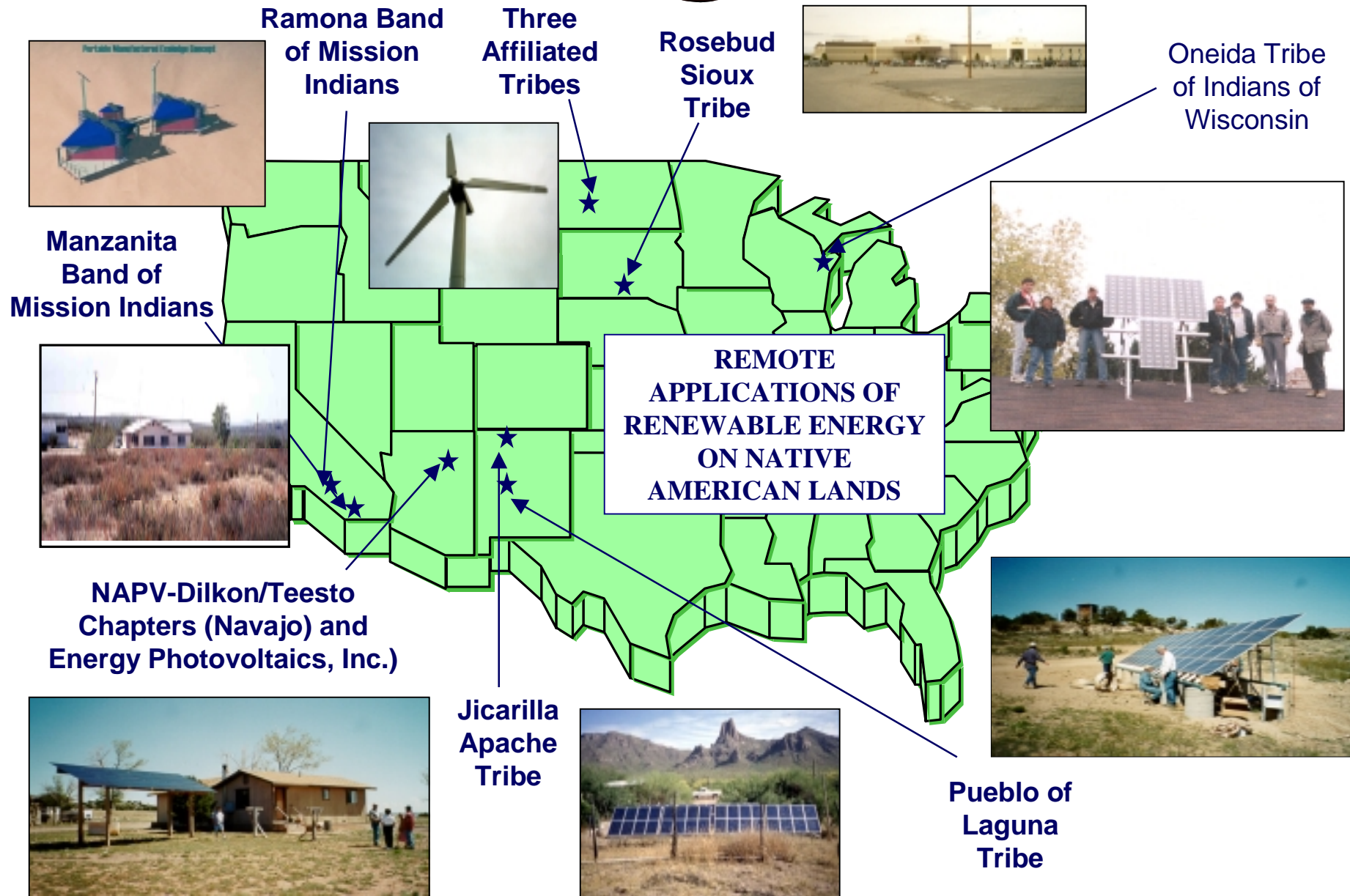
- Installation of Renewable Energy Technologies on Tribal Lands;
and
- Monitor the Renewable Energy systems for Three Years

Eight (8) Awards at \$1,900,000 plus 20% Cost Share



REMOTE POWER PROJECTS

- **Eight (8) Tribes Awarded Cooperative Agreements**
 - Oneida Tribe, WI - Solar
 - Pueblo of Laguna, NM - PV, Wind
 - Manzanita Band of Mission Indians, CA – PV, Wind
 - Jicarilla Apache Tribe, NM – PV
 - Rosebud Sioux Tribe, SD – Wind
 - Ramona Band of Mission Indians, CA – PV, Wind, Solar Thermal, Hybrid Systems
 - Three Affiliated Tribes, ND – Wind
 - Navajo Tribe, AZ - PV





REMOTE POWER INSTALLATIONS ON NATIVE AMERICAN LANDS



Pueblo of Laguna
PV Arrays, PV
Water Pumping
and Wind Turbine
Majors Ranch



Navajo Nation
(Dilkon/Teesto
Chapters)

PV Array on
Navajo Home



Jicarilla Apache Reservation
PV Array on Dulce High School





TRIBAL COLLEGES AND UNIVERSITIES SOLICITATION (FY2000)

Application of Renewable Energy Technologies at Tribal Colleges and Universities

Objectives

- Installation of Renewable Energy Technologies at Tribal Colleges and Universities; and
- Development and Implementation of Educational Programs, with an Emphasis on Experiential Learning



TRIBAL COLLEGES AND UNIVERSITIES

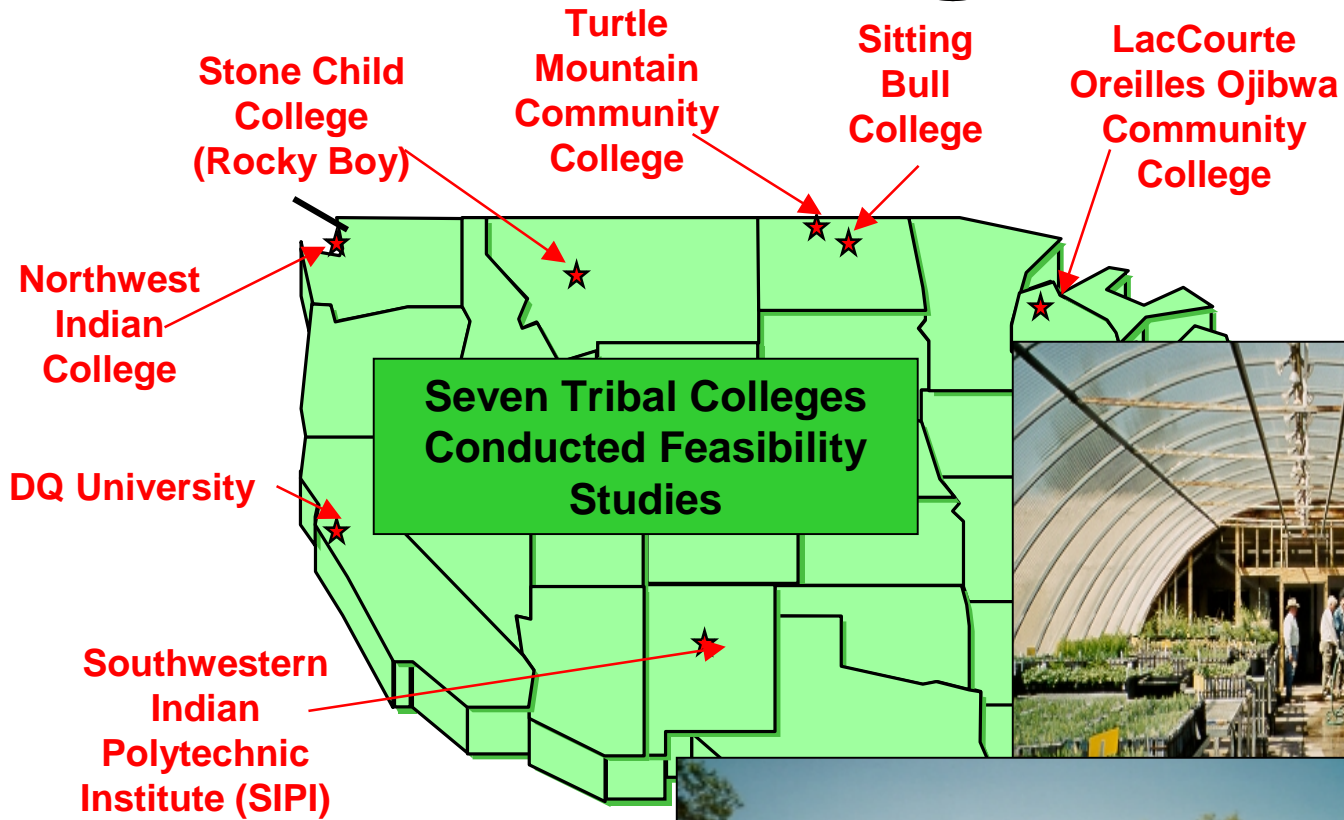
- **Two Phased Program**
 - Phase 1 Focused on Feasibility Studies to Apply Renewable Energy Technologies and Integrate with an Educational and Outreach Program.
 - Phase 2 Focus on the Renewable Energy Hardware Installation and Implementation of the Educational Program.
- **Phase 1 - 7 Awards at \$700,000**
- **Phase 2 – 1 Award at \$430,000 plus 20% Cost Share**



TRIBAL COLLEGES & UNIVERSITIES

Phase 1 Feasibility Studies

- D-Q University, Davis, CA
- Lac Courte Oreilles Ojibwa Community College, Hayward, WI
- Northwest Indian College, Bellingham, WA
- Sitting Bull College, Fort Yates, ND
- Southwestern Indian Polytechnic Institute, Albuquerque, NM
- Stone Child College, Box Elder, MT
- Turtle Mountain Community College, Belcourt, ND



**RENEWABLE ENERGY
TECHNOLOGIES AT
TRIBAL COLLEGES &
UNIVERSITIES**

**SIPI Awarded
Phase 2
Funding**



DOE PERSPECTIVE

Develop a Program that Supports Tribal Energy
Self-Sufficiency

STRATEGIC PLANNING SESSION

Seek Tribal Wisdom for Developing a Long-
Term DOE Program for Renewable Energy on
Native American Lands



PEER REVIEW

Peer Review Results

- DOE's Primary Interface Needs to be with Tribal Leaders
- Focus on the Core Interests of the Tribe and Tribal Community as a Whole
- DOE and DOE Laboratories Need to be More Proactive
- Integrate DOE Native American Activities
- Inadequate Program Funding

Recommendations

- Build on Tribal Wisdom in Future Planning
- Organize a Meeting Among Tribal Representatives

Peer Review Report at www.golden.doe.gov



FY 2002 EERE INDIAN ENERGY BUDGET

“Conference Agreement includes **\$3,000,000** for Renewable Indian Energy Resources. The Conference Expects these Funds to be Competitively Awarded Grants to Federally-Recognized Tribes throughout the United States”

FY2002 Congressional Earmarks

- \$3 M for Navajo Electrification Project
- \$500 K for Turtle Mountain Community College Wind Project



FY2002 EERE INDIAN ENERGY SOLICITATION(S)

**Competitively Award Cooperative Agreements for
Sustainable Renewable Energy Projects**

- **Process**

- Issue and Receive Applications through DOE's Internet-Based Interactive Procurement System (IIPS)
- Announce Solicitation(s) January 2002
- Issue Solicitation(s) February 2002
- Pre-Application Conference at ITEN Conference (March 2002)



EERE INDIAN ENERGY SOLICITATION(S)

- **Requirements**

- Competitive Awards
- Sustainable Beyond DOE Funding
- Cost Share Requirements
- Internet-Based Solicitation Process

- **Tribal Needs?**

- Feasibility Studies/Resource Assessment
- Capacity/Business Development Support
- Technical Assistance (DOE Laboratories)
- Renewable Energy Hardware Installations

**Jointly Develop a DOE Indian Energy Program Roadmap
That Supports the National Tribal Energy Vision**